

GROYECKI, J.

③ Max

Journal of Applied Chemistry
March 1954
Industrial Inorganic Chemistry

Influence of various additions, hot-working, and heat treatment on magnetic properties of low-carbon steels. W. Markuszewicz and J. Groveczki, *Prace Inst. Mistr. Hucic*, 1953, 1, No. 1, 1-34; *J. Iron Steel Inst.*, 1953, 175, 93. — The effects of content and nature of additions, grain size, crystallographic orientation, and mechanical stresses on the magnetic properties of low-C steel are surveyed. Steels from a basic open-hearth furnace (0.08% C) and a 7-kg. induction furnace were examined. With large cross-sections (diameter 20-100 mm) the magnetic properties depend entirely on the zone segregation. In sheets, improvement of the magnetic properties is ascribed to decarburisation during heating and rolling. The effect of heat treatment was tested on pickled sheets and scale-covered sheets after box-annealing. Atm. of H_2 and N_2 (dry and wet) were used. Heat treatment at high temp. (1100° and 1250°) may, depending on the atm., have a detrimental effect on the magnetic properties owing to the increase in N_2 and O_2 in steel. This phenomenon is marked when treatment is carried out in N_2 or on sheets covered with scale. The beneficial influence of scale is marked at lower temp. Heat treatment at 800° for 24 hr. lowered the coercivity of 1-mm. sheets to 0.4-0.6 oersted. This was due to grain growth and considerable decarburisation (0.009% C). Sheets and rods, pickled and box heat-treated at 1100-1250°, although having a low coercivity immediately after treatment, increased in coercivity as a result of ageing associated with the higher N₂ content of the metal. Ageing a low-C steel containing ~0.6% of Si or 0.25% of Al does not cause any noticeable change in magnetic properties. Additions of 0.2% of Si and 0.2% of Al are the most suitable. (74 references) R. B. CLARKE.

R. B. CLARKE.

Groyecki, J.

POL.

The Production of Hot Rolled Transformer Sheets with Low Watt Losses. M. Markiewicz, J. Groyecki and A. Kowalewski (Prace Instytutu Ministerstwa Przemyslu, 1959, 6, (3), 105-110). [In Polish]. The authors tried to decrease the watt losses in sheets by an additional anneal, by a change in annealing conditions, and by a selection of sheets according to their position in packets. These trials, however, brought only a small improvement. Experimental melts in an 8-ton electric furnace were then prepared under various operating conditions. Intensive boiling during initial oxidation, slow boiling, boiling at the end of the heat and the highest possible temperature were tried. No relationship between the silicon content in ferrosilicon and watt loss was observed. The heat results were obtained by pouring molten metal from the ladle into the furnace and by substituting calcium silicide for part of the ferrosilicon. The amount of calcium silicide was about

33% of the total silicon in the steel. Twenty-five melts in an 8-ton electric furnace and three melts in a 20-ton O.H. furnace in which the above method was used gave satisfactory results. The decrease in watt losses of about 0.5 W. per kg. was obtained. Another advantage of this method was that sheets of low watt losses had good permeability when placed in a magnetic field of low intensity--v. a.

GROYECKI, J.

Distr: 4E2c

✓ Problems of the decarburization of electrotechnical metal plates. J. Groyecki. Hulnik 24, 289-95 (1957). — Decarburization of transformer plates covered with scale or Fe_3O_4 is best carried out at 800° . The addn. of inert gases, H_2 , CH_4 , or steam accelerates the process. Decarburization with a mixt. of CO and CO_2 is best carried out at higher temps. From C. Z. 1958, 6002. M. Schäffer

DR

POL/39-59-12-2/16

25(1)

AUTHOR: Markuszewicz, Mieczyslaw, Docent, Doctor Engineer;
Groyecki, Jan, Master, Engineer

TITLE: Possibilities of Quality Improvement of Hot Rolled
Transformer Sheet Steel

PERIODICAL: Hutnik, 1959, Nr 12, pp 476-482 (Poland)

ABSTRACT: The authors try to devise a method of producing hot
rolled transformer sheet steel qualitatively nearer
to cold rolled sheet steel. After reviewing existing
methods they describe their Institute's present re-
search into methods of cold finishing of hot rolled
sheets, for the purpose of improving their crystallo-
graphic orientation. This demands that the sheets be
finished at temperatures of the range of 1150°C. Sum-
ming up they state that improvement can be obtained
through: 1) the reduction of noxious admixture by
appropriate smelting, removing of gasses by applica-
tion of vacuum, removing of surplus carbon, avoidance

Card 1/2

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POL/39-59-12-2/16

Possibilities of Quality Improvement of Hot Rolled Transformer Sheet Steel

of oxygen and nitrogen diffusion and admixture of aluminum to silicon iron; 2) the obtaining of a "coarse grain" structure of the steel; 3) one-way working of the steel from ingot to ready sheet; 4) obtaining crystallographic orientation through cold rolling at 40% pressure at the finishing stage; 5) production of belts instead of sheets, by hot welding and cold finishing; 6) covering the sheets or belts with ceramic insulation (they quote the French patent: 1,143, 190). The Institute of Iron Metallurgy has successfully reduced the amount of Si in transformer steel to 2.9%. There are 3 tables, 7 figures and 10 references, 4 of which are Polish, 2 Soviet, 1 Czech and 3 German.

ASSOCIATION: Instytut Metalurgii Zelaza (Institute of Iron Metallurgy, Gliwice).

Card 2/2

✓

Distr: 4E2c

✓ Manufacture and properties of cold-rolled transformer sheets. M. Markuszewicz, J. Grovecz, and A. Zawidzki. *Prace Inst. Hutykrych* 12, 181-44 (1960).—The manuf. and properties of cold-rolled transformer sheets prep'd. from 5 heats of transformer steel contg. 2.0-3.0% Si and melted in a 20-ton elec. furnace were described. By intense mixing of metal with slag during tapping and pouring from one ladle to another the Si content decreased to 0.008%. The ingots were hot rolled to 2.5-mm.-thick strip in which, as a result of annealing at 830-50°, the C concn. was reduced by 50%. After pickling, the strip was cold rolled to 0.35 mm. in thickness with one intermediate annealing. The final heat-treatment consisted of annealing *in vacuo* or under H. The magnetic properties of the sheets were comparable with those of foreign origin. W. Tomaszewski

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Myc (JA)

S/137/62/000/011/005/045
A052/A101

AUTHORS: Groyecki, Jan, Markuszewicz, Mieczyslaw, Stankiewicz, Mieczyslaw

TITLE: Method of steel bath desulfurization

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 11, 1962, 41, abstract
11V248P (Pol. pat., no. 45133, October 16, 1961)

TEXT: The method of steel desulfurization consists in the following: on melting the charge the oxidizing slag is drawn off completely and the pool is reduced with Fe-Si, afterwards 1.5 - 2.5% lime and 0.3 - 0.5% fluorite are added to the pool; after 20 minute heating a mixture of 0.1 - 0.35% Mg with 0.4 - 1.4% lime is blown by means of an inert gas into the pool; metal along with the slag is discharged from the furnace into a ladle without a stopper; out of this ladle the smelt is poured back into the furnace and then it is discharged into a ladle with a stopper.

Ye. Mikhalk

[Abstracter's note: Complete translation]

Card 1/1

MARKUSZEWCZ, Mieczyslaw, doc. dr inz.; GROYECKI, Jan, mgr inz.

Effect of the method of steel founding on the magnetic properties
of hot rolled transformer sheets. Hutnik P 29 no.9:313-317 S '62.

1. Instytut Metalurgii Zelaza, Gliwice.

MARKUSZEWCZ, Mieczyslaw; GROYECKI, Jan; ZAWADA, Aleksander

Application of cold-rolled transformer tape in the production of
magnetic cores. Wiad elekrotechn 30 no.10:331-337 0 '62.

1. Instytut Metalurgii Zelaza, Gliwice.

MARKUSZEWCZ, Mieczyslaw; GROYECKI, Jan; ZAWADA, Aleksander

C-type transformer cores produced from textured magnetic stripes, "anizoperm" type. Przegl telekom 34 no.8:228-234 Ag '62.

1. Instytut Metalurgii Zelaza, Gliwice.

GROYECKI, Jan

Contribution to studies on the recrystallization of steel of
3% silicon content. Mechanika Gliwice no.16:69-72 '62.

1. Instytut Metalurgii Zelaza, Gliwice.

MARKUSZEWCZ, Mieczyslaw; GROJECKI, Jan; ZAWADA, Aleksander

Application of textured transformer tape for the production of
magnetic cores. Wiad elektrotech 30 no.10:331-337 0 '62.

1. Instytut Metalurgii Żelaza, Gliwice.

MARKUSZEWCZ, M., prof. dr inż.; GROYECKI, T., mgr inż.; ZAWADA, A., mgr inż.

Determination of basic technological parameters influencing the loss of transformer metal sheets under the production conditions of the Lenin Steel Works. Biul inf inst metal zel no.2:8-10 '64.

1. Department of Magnetic Materials of the Institute of Iron Metallurgy, Gliwice.

VYSHNEPOL'SKIY, Isaak Samuilovich; TRZHETSYAK, Leonid Isayevich;
GROYS, Kh.L., nauchnyy red.; SUKHAREVA, R.A., red.;
DORODNOVA, L.A., tekhn. red.

[Methods of teaching mechanical drawing; in vocational and
technical schools]Metodika prepodavaniia chercheniia v pro-
fessional'no-tekhnicheskikh uchilishchakh. Moskva, Proftek-
izdat, 1962. 228 p. (MIRA 15:8)
(Mechanical drawing—Study and teaching)

GROYS, O.Sh.

Concerning a possible mechanism of quartz ageing. Radiotekh.
i elektron. 7 no.4:702-704 Ap '62. (MIRA 15:3)
(Oscillators, Crystal)

GROYS, O.Sh.

Aging of quartz. Radiotekh. i elektron. 8 no.9:1630-1632 S
'63. (MIRA 16:9)
(Quartz--Electric properties)

IMAGIN, Aleksandr Gerasimovich; GOMZ, D.D., nauchn. red.

[Precision quartz resonators; their physical principles]
Pretsizionnye kvartsevye rezonatory; fizicheskie osnovy.
Moskva, Izd-vo standartov, 1964. 236 p. (MIRA 1d:2)

GROYS, O.Sh.

Contact effects in quartz resonators and their role in the
aging process of quartz. Radiotekhn. i elektron. 9 no.11
2037-2039 N '64. (MCRU 17:12)

L 29537-65 EWT(1)/EWP(e)/EWT(m)/EWP(b)/EWA(h) Pg-4/Petl WB

ACCESSION NR: AP5005365

S/0109/65/010/002/0388/0390

AUTHOR: Groys, O. Sh.

TITLE: Effect of the elasticity of quartz on the frequency stability of quartz resonators

SOURCE: Radiotekhnika i elektronika, v. 10, no. 2, 1965, 388-390

TOPIC TAGS: quartz, quartz resonator, frequency stability

ABSTRACT: An addition to an earlier author's work (Rad. i elektronika, 1962, 7, 4, 702) is presented. Not only density but also elasticity of quartz is considered in a theoretical evaluation of quartz-resonator frequency stability. It is found that the overall relative frequency variation of a quartz resonator, allowing for both density and elasticity-modulus variations, is about 10^{-6} for ordinary practical modes. The frequency variation is of the positive sign which agrees with the experimental findings of I. M. Shaull, et al. (Proc. IRE, 1954,

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L 29537-65

ACCESSION NR: AP5005365

42, 8, 1300). Orig. art. has: 10 formulas.

ASSOCIATION: none

SUBMITTED: 28Feb64

ENCL: 00

SUB CODE: EC

NO REF SOV: 002

OTHER: 005

Card 2/2

GROJS, O. S.

SUBJECT USSR / PHYSICS
AUTHOR ŠPINEL', V.S., GROJS, O. S.
TITLE Vertical Focussing in a Spiral- β -Spectrometer.
PERIODICAL Zurn.techn.fis, 26, fasc.10, 2259-2268 (1956)
Issued: 11 / 1956

CARD 1 / 2

PA - 1585

This work deals with the computation of spatial trajectories in a spiral- β -spectrometer. The character of the magnetic field: If the pole shoes generating the spectrometer field are cylindrical the magnetic field can be approximatively be subdivided into a homogeneous and an inhomogeneous domain. For the existence of a spiralshaped trajectory it is necessary that the magnetic field be reduced more rapidly than $1/r$. The electron is then not able to move steadily along the "boundary orbit" $r = R$. Spatial motion: Next, the motion of the electrons emitted at a certain angle in the direction of the central plane is investigated. The equations are written down. The motion of the electron can then be considered to be a motion in a conservative field of force with the potential U . All possible trajectories of the electron emitted with initial velocity are within one boundary surface. The boundary surface has the shape of a surface of revolution with plane contour. Next, the orbit of the electron on this surface of revolution is dealt with. For the purpose of illustrating the character of focussing in the vertical plane the motion in a field generated by two fictitious charges is investigated. Such a field is analogous to that on which interest is focussed here and which is generated by two cylindrical pole ends. An equation for the boundary contour is hereby

Zurn.techn.fis, 26, fasc. 10, 2259-2268 (1956) CARD 2 / 2

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obtained; for the case that the electron is emitted from the coordinate origin at angles of 5° and 10° it was numerically integrated into the plane $z = 0$. If sufficiently large vertical angles of divergence of the bundle are used, an annular focus exists in such a field. Next, the motion of the electron in a spiral- β -spectrometer was dealt with, the magnetic field of which is generated by two coaxial cylindrical pole shoes with a diameter of 200 mm (spacing 6 cm). The field is constant at $r \leq 7$ cm. An expression for the vector potential within the domain of low values of z is derived, and with its help the trajectory of the electron leading out from the coordinate origin is found. This trajectory was also continued into the domain of the inhomogeneous field. In the same manner also a differently directed trajectory was computed. Surfaces of revolution: In order to determine the spatial trajectory also the revolution of a certain plane round the z -axis must be taken into account. In conclusion the focussing properties of the spectrometer are investigated by the photographic method and described in detail.

INSTITUTION:

S. A. GROYS, E. S.

3 6 1
1

M 621.315.1.015.3 : 614.8 - 87
The danger to personnel produced by low overland
mammalian fauna during thunderstorms. AKOPYAN,
A. A., GROYS, E. S., AND ERIN, L. E. *Ekat. St.*
No. 13-14, pp. 31-33, July, 1941.
S. S.
Sov. *Zhur. St.* 621.315.21 : 621.315.31

GROYS, YE. S.

Electric Engineering

"Rules pertaining to the setting up of electric installations. Elektrichestvo, No. 1, 1952.

Inzh. NII Postoyannogo Toka

SO: Monthly List of Russian Accessions, Library of Congress, April 1952 1953/ uncl.

REPS, N. F.

105-9-1/32

AUTHORS Nekrasov A.M., Engineer, Groys Ye.S., Engineer, Zelikin M.L.,
Engineer, Turetskiy V.Ye., Engineer, Man'kin E.A., Candidate of
Technical Sciences.

TITLE The Transmission System Stalingrad Hydro-Electric Station-Donbass.
(Elektroperedacha postoyannogo toka Stalingradskaya GES-Donbass -
- Russian)

PERIODICAL Elektrichestvo, 1957, Nr 9, pp 1 - 10 (U.S.S.R.)

ABSTRACT The line still under construction will connect the Southern energy
system with the Stalingrad hydro-electric station. In the case of
a flood the energy will be transferred from Stalingrad to the Don-
bass and during seasonal fluctuations on the Volga it will be ar-
ranged the reverse direction. The nominally fixed power is 750 MW.
Four billion kW will be transferred in both directions yearly. The
length of line is 470 km, the voltage is 800 kV. The operation- and
experimental results of the d.c.line Kashira-Moscow were of great
importance for projecting. The design and operation of the power
line is given. It is an eight-bridge scheme with earthing of the
center of the d.c.part. The average rectified voltage of each brid-
ge is 100 kV. Single-phase transformers of 82 MVA were selected for
this purpose. A net-speed-control is planned as well as shunt-val-
ves for the liquidation of operational breakdowns. The change of
direction of the energy transmission is arranged by means of a net-
control and without any switching in the main system. The descrip-
tion of the insulation as well as of the overvoltage protection, the

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105-9-1/32

The Transmission System Stalingrad- Hydro-Electric Station
-Donbass.

basic equipment of the transformer substations, their arrangement and the power line itself, which is constructed as open-air transmission-line, is given. Finally the technical economic indices as well as a comparison with an alternating line are given. The d.c. line is cheaper by almost 30% and has losses which are 2,5 times lower, The Stalingrad-Donbass line costs 0,9 Kop. per 1 kWh. The technical economic indices are practically the same in both cases. There are 4 tables, 10 illustrations and 9 Slavic references.

ASSOCIATION Technical Direction of MES.-Scientific Research Institute for Direct-Current.- Moscow Transformer Factory.
(Tekhnicheskoye upravleniye MES.- Nauchnoissledovatel'skiy institut postoyannogo toka.- Teploelektroprojekt.-Moskovskiy transformatornyy zavod.)
SUBMITTED January 18, 1957
AVAILABLE Library of Congress.
Card 2/2

GROYS, Ye.S.

Problems of transmitting direct current. Elektrichesvo no.10:93-94
(MLRA 10:9)
0 '57.

1. Nauchno-issledovatel'skiy institut postoyannogo toka.
(Electric power distribution)

GROYS V.S.

SYROMYATNIKOV, I.A., doktor tekhn. nauk, prof. (Moskva); BUCHIDZE, S.R.,
kand. tekhn. nauk (Tallin); ORLOVSKIY, A.V., prof.; POSSE, A.V.,
kand. tekhn. nauk; AKSEL'ROD, M.M., inzh.; GERTSIK, A.K., inzh.;
GROYS, Ye.S., inzh.; KVYATKOVSKIY, V.M., inzh.

Outlook for d.c. power transmission in the Soviet Union. Elektri-
chestvo no.2:72-78 F '58. (MIRA 11:2)

1. Chelyabinskij politekhnicheskiy institut (for Orlovskiy). 2. Nauch-
no-issledovatel'skiy institut postoyannogo toka (for Posse, Aksel'rod,
Gertsik, Groys, Kvyatkovskiy).
(Electric power distribution--Direct current)

GROYS, Ye. S.

AUTHORS: 1) Tsvirkernik, L. V., Candidate of
Technical Sciences
2) Groys, Ye. S.
3) Mel'gunov, N. M., Engineer, Chairman of the Scientific
Research Institute of Direct Current

SCOV/105-18-9-17/34

TITLE: Prospects in the Application of Direct-Current Transmission
in the USSR (O perspektivakh primeneniya elektroperedach
postoyannogo toka v Sovetskem Soyuze)

PERIODICAL: Elektrичество, 1958, Nr 9, pp 70 - 75 (USSR)

ABSTRACT: This is a comment on the article by N.M.Mel'gunov in
Elektrичество, 1957, Nr 2. 1) The point is stressed that
no consideration has been taken of the prospects offered
by atomic power engineering, not even in a general form.
There is, however, reason to believe that at the moment
where d.c. transmission has matured as to be of importance
for industry atomic energy power generation will have
sufficiently developed. 2) On March 11, 1958, the General
Assembly convened of the members of the Pervichnaya organi-
zatsiya NTOEP Nauchno-issledovatel'skogo instituta postoyannogo

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Prospects in the Application of Direct-Current
Transmission in the USSR

SGV/105-18-9-17/34

toka (Sub-Section of the NTOEP at the Scientific Research Institute of Direct Current). This meeting featured a discussion of the commentaries to the article by Mel'gunov in Elektrичество, 1957, Nr 2. It was attended by the leading scientific collaborators of the Institute of Direct Current, representatives of the Leningradskaya laboratoriya Energeticheskogo instituta AN SSSR (Leningrad Laboratory at the Institute of Power Engineering, AS USSR) of the Leningradskiy politekhnicheskiy institut (Leningrad Polytechnical Institute), of the Teploelektroproyekt, of the Gidroproyekt etc. The note presented by Mel'gunov as item 5 in this paper was read and discussed. The draft for the decision to be adopted which was prepared by N.N. Shchedrin, Ye.S. Groys, V.I. Yemel'yanov, V.M. Kvyatkovskiy, N.I. Mel'gunov and A.M. Reyder was also debated. V.M. Kvyatkovskiy, A.M. Reyder, A.K. Gertsik, M.V. Kostenko, N.A. Shipulina (a woman), P.G. Sorokin, V.I. Yemel'yanov, I.F. Polovoy, Ya.S. Tatevosyan, V.V. Bolotov and N.D. Leshukov took part in the debate. The decision was approved unanimously. Its outstanding points are: D.c. transmission should be mainly applied in the transmission

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Prospects in the Application of Direct-Current
Transmission in the USSR

SOV/105-58-9-17/34

of great energies across wide distances, as such a transmission is more economical than others. D.c. transmission is the most economical as compared to railroad transportation of fuel and to other systems of power transmission, whereas an alternating current transmission is almost beaten in the competition with railroad coal transportation. D.c. transmissions operating at \pm 600-700 kW will be realized in the near future and are capable of transmitting as much as 30 billion of kWh per year through one line. One kWh transmitted across a distance of about 2500 km will cost about 0,5 - 0,6 kopecks. Hence it will be possible to exploit the energy produced by the Angara-Yenissey cascade of power dams, that produced in the open-face mining area in Kazakhstan, and that produced from the non-transportable coal in the Krasnoyarsk district to supply the European part of the Union. As in the next 15 years gas production will climb to a level of 270 - 320 billion m³ per annum it will partly be available for the production of electric power. Calculations showed that a d.c. transmission offers advantages above a gas pipeline.

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Prospects in the Application of Direct-Current
Transmission in the USSR

SOV/105-58-9-17/34

The economy of a d.c. transmission increases with the distance covered as compared to that of alternating current transmission. When the costs of d.c. transmissions with good prospects are to be calculated it is not advisable to proceed from the data provided by the Stalingrad Power Station - Donbass project. There is no reason to doubt the possibility of building d.c. transmission lines with interspaced substations. Tests carried out on the line Kashira-Moscow with d.c. contactors (developed in the LPI, the Plant "Electric Apparatus and the NIIPt") substantiate the possibility of switching off d.c. power in high tension-lines. In d.c. transmission the system for the control of the unified power systems can be considerably simplified and the individual systems require no synchronizing. There are 2 tables and 3 references, 3 of which are Soviet.

Card 4/5

Prospects in the Application of Direct-Current
Transmission in the USSR

SOV/105-58-9-17/34

ASSOCIATION: 1)Institut elektrotehniki Akademii nauk USSR (Institute
of Electrical Engineering, AS UkrSSR) 2)Pervichnaya organi-
satsiya NTOEP Nauchno-issledovatel'skogo instituta postoyannogo
toka (Subsection of the NTOEP at the Scientific Research
Institute of Direct Current) 3) Nauchno-issledovatel'skiy
institut postoyannogo toka (Scientific Research Institute
of Direct Current)

Card 5/5

GROYS, Ye.S.; KADOMSKIY D.Ye.

Internal overvoltages in single-bridge converter substations for
d.c. transmission. Izv. NIIPT no.5:101-126 '60. (MIRA 14:1)
(Electric substations)

GROYS, Ye.S., inzh.

Prospectives of transmitting direct current through power lines of
the U.S.S.R. Elektrichestvo no.7:86-89 J1 '60. (MIRA 13:8)
(Electric power distribution--Congresses)

POSSE, A.V., GROIS, YE.S., ALEXEYEV, M.M.

Electrical transmission of Direct Current, Central Siberia-Urals, and its
Technical-Economic Indices.

Report to be submitted for the Conference on Electrification of Siberia,
Development and unification of its power systems, 7-9 Dec. 61

GROYS, Ye.S.

The d.c. power transmission system between Volgograd and the
Donets Basin has the priority. Izv. NIIPT no.9:5-28 '62.
(MIRA 15:12)

(Russia, Southern—Electric power distribution)
(Russia, Southern—Electric lines—Overhead)

BUDZKO, Igor' Aleksandrovich, doktor tekhn. nauk, prof., akad.; ZAKHARIN, Andrey Georgiyevich, doktor tekhn. nauk; EBIN, Lev Yefimovich, doktor tekhn. nauk, prof.; KANAKIN, N.S., inzh.; LEVIN, M.S., kand. tekhn. nauk; YAKOBS, A.I., kand. tekhn. nauk; GROYS, Ye.S., inzh.; ZUL', N.M., kand. tekhn. nauk; POYARKOV, K.M., kand. tekhn. nauk; MURADYAN, A.Ye., kand. tekhn. nauk; KRAUSP, V.R., kand. tekhn. nauk; SHATS, Ye.L., kand. tekhn. nauk; IOKHVIDOV, E.S., red.; BUL'DYAYEV, N.A., tekhn. red.

[Rural electric power distribution networks] Sel'skie elektricheskie seti. Moskva, Gosenergoizdat, 1963. 262 p.
(MIRA 16:5)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Budzko).
(Rural electrification) (Electric power distribution)

L 51369-65 EEC(b)-2/EEC(k)-2/EWA(h)/EWT(1)/T Pm-4/Pz-6/Peb IJP(c) GS

ACCESSION NR: AT5011626

UR/0000/64/000/000/0522/0529

27

B71

AUTHOR: Groysberg, L. B.; Kharlamova, Ye. D.

TITLE: Ferrite-transistor elements with an intermediate transformer memory

SOURCE: Vsesoyuznoye soveshchaniye po magnitnym elementam avtomatiki, telemekhaniki, izmeritel'noy i vychislitel'noy tekhniki. Lvov, 1962. Magnitnyye elementy avtomatiki, telemekhaniki, izmeritel'noy i vychislitel'noy tekhniki (Magnetic elements of automatic control, remote control, measurement and computer engineering); trudy soveshchaniya. Kiev, Naukova dumka, 1964, 522-529

TOPIC TAGS: intermediate transformer memory, ferrite transistor element, single stroke circuit, intermediate storage, collector current

ABSTRACT: For intermediate data storage, known single-stroke systems often utilize cells triggered by the back edge of the "1" entry (M. I. Petrukhin, Avtomatika i telemekhanika, 1961, no. 2). However, units without auxiliary cells (see e.g., Ye. M. Martynov, Beskontaktnye pereklyuchushchiye ustroystva, Gosenergoizdat, 1961) are more economical. For intermediate data storage, the newly proposed cell utilizes the energy collected within a special pulsed transformer incorporated into the collector circuit of the triode. Circuits using

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L 51369-65

ACCESSION NR: AT5011626

such an intermediate memory (see, e.g., Fig. 1 of the Enclosure) are fully reliable, do not consume additional power, and retain all the usual capabilities of ferrite-transistor devices. On the other hand, compared with the RC and LC-containing single-stroke circuits, transformer-containing cells can use, in addition to the delayed output pulse, the basic strong collector current pulse along a separate channel. The diode within the delayed output pulse (which is uncoupled with respect to the DC current of the circuit) can serve as a valve, thus significantly enlarging the potentialities of the ferrite-transistor combination over the usual logical connections carried out via the collector current. If one uses the collector current output for adding, and the auxiliary output for recording, one augments the reliability of ferrite transistor schemes by efficiently excluding interference and false triggering. Orig. art. has: 11 formulas and 6 figures.

ASSOCIATION: none

SUBMITTED: 29Sep64

ENCL: 01

SUB CODE: DP

NO REF Sov: 007

OTHER: 000

Card 2/3

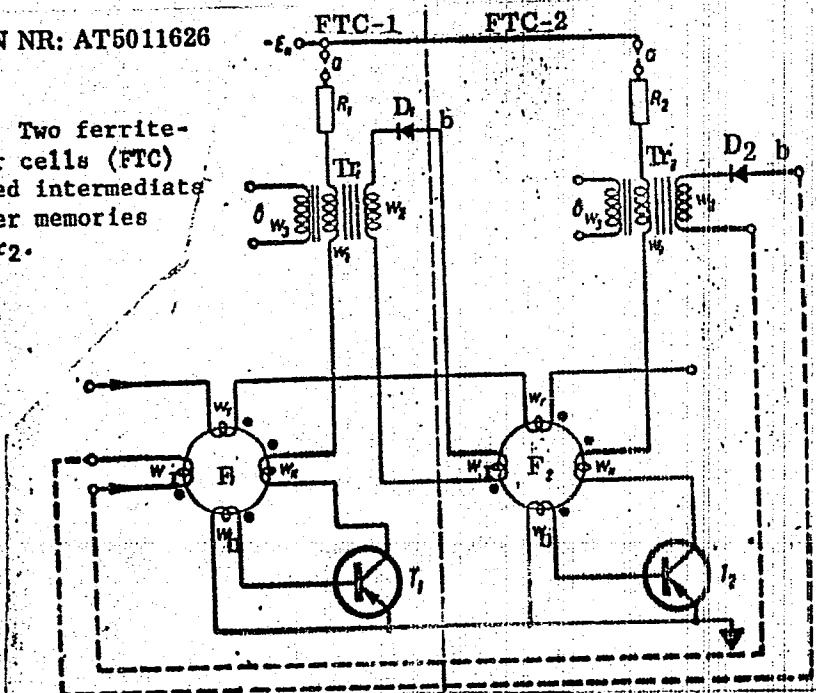
L 51369-65

ACCESSION NR: AT5011626

ENCL: 01

Figure 1. Two ferrite-transistor cells (FTC) with pulsed intermediate transformer memories Tr_1 and Tr_2 .

Card 3/3 MB



S/0226/63/000/006/0036/0038

ACCESSION NR: AP4005838

AUTHOR: Yasinskaya, G. A.; Groysberg, M. S.

TITLE: Interaction of titanium boride with niobium and tungsten

SOURCE: Poroshkovaya metallurgiya, no. 6, 1963, 36-38

TOPIC TAGS: titanium boride, titanium boride niobium alloy, titanium
boride tungsten alloy, tungsten diagram, titanium boride system, niobium system, alloy phase
TiB sub 2 phase, intermetallic compoundABSTRACT: Alloys of titanium boride with 0-100% niobium or tungsten
were prepared from TiB₂ powder (69.4% Ti, 30.2% B, 0.3% C) and pure
Nb and W powders with a particle size of less than 40 μ . Alloy spec-
imens were cold-compacted and then sintered in a vacuum of 3.33 n/m²
at 1800-2600°C. Both systems were found to have eutectic-type phase
diagram (see Figs. 1 and 2 of the Enclosure) with a chemical compound.
X-ray diffraction patterns and metallographic examination confirmed
the existence of ternary NbTiB₂ and WTiB₂ compounds which have a com-
plex structure different from that of the components. Orig. art. has:
2 figures.

Card 1/42

Card

AVERSUKH, E.Sh., inzh.; BOCHANOV, Ye.Ye., inzh.; GROYSMAN, A.D., inzh.;
KUPERMAN, M.A., inzh.

Automatic control of hopper loading. Mekh. i avtom. proizv. 19
no.3:19-22 Mr '65.
(MIRA 18:4)

GROYSMAN, A.L.

Some indices of peripheral blood in chronic alcoholism. Zhur.nevr.
i psikh. 63 no.12:1874-1876 '63. (MIRA 18:1)

1. Terapeuticheskoye otdeleeniye zheleznodorozhnoy bol'nitsy
(nachal'nik M.M.Nabiullin) stantsii Zuyevka Gor'kovskoy zheleznoy
dorogi. Nauchnyy rukovoditel' raboty - prof. N.V.Ivanov.

L 20921-66

ACC NR: AP6002593

(N)

SOURCE CODE: UR/0286/65/000/023/0089/0089

AUTHORS: Bolkhovskoy, G. A.; Groysman, A. M.; Mel'nikov, O. D.; Bor, V. A.; Diratsu, A. V.

ORG: none

TITLE: A stationary hose device for pouring liquids. Class 65, No. 176811

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 23, 1965, 89

TOPIC TAGS: liquid flow, cargo, hose

ABSTRACT: This Author Certificate presents a stationary hose device for pouring liquids. The device has an equalizer system of a constant counterweight with a hydraulic system and consists of swivel-connected sections of inflexible pipes, product ducts, and an attachment mechanism (see Fig. 1). To eliminate spilling of the liquid when a tanker is leaving, the hose device has an emergency disconnecting unit which simultaneously acts on the loading pumps, the shutoff devices of the main supply lines, and the actuating mechanisms of the hose device. The emergency disconnecting unit is a hydraulically controlled gate valve connected to the

Card 1/2

UDC: 621.6.057.2:629.123.4

L 20921-66

ACC NR: AP6002593

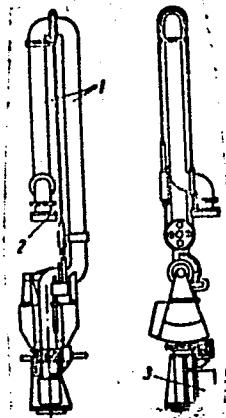


Fig. 1. 1 - swivel-connected
pipes; 2 - attachment device;
3 - emergency disconnect
unit.

control valve and to the terminal releasing device. Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 17Dec64

Card 2/2

ULR

GROYSMAN, B.A. ORLOV, I.

Actinomycosis of the mammary glands. Zdravookhranenie 4 no.3a
(MIRA 16:7)
57 My-Je-61.

I. Iz khirurgicheskogo otdeleniya (zav. M.N. Voynova) rayonnoy
bolniцы g. Orgeyeva (glavnnyy vrach M.A. Bagmanyan).

(ACTINOMYCOSIS) (MAMMARY GLANDS)

3. N.Y. YUMA 4. 6.

KORCHAGIN, V.; CHUDAKOV, V.; ROVNYKH, A.; PLATONOV, V.; DENISOV, Yu.;
LYUBAKOV, V.; LEVASHOV, L.; GROYSMAN, E.; YUMATOV, V.; MOSIN, V.

Designing, constructing, flying. Tekn. mol. 26 no.3:31 '58.
(MIRA 11:3)

1. Predsedatel' soveta Osobogo konstruktorskogo byuro (for
Korchagin). 2. Chleny soveta Osobogo konstruktorskogo byuro (for
all except Korchagin).

(Airplanes--Design and construction)

SHCHERBAKOV, I., inzh.; GROXSMAN, E., inzh.

Metal, wood, or plastic? Kryl. rod. 16 no.11:20-21
N '65. (MIRA 18:12)

SHLYAKHOV, E.N.; BONDURYANSKIY, I.P.; GROYSMAN, G.M.; OSTAPENKO, M.G.;
LITVIK, Ye.N.; KONDRAT'YEVA, L.I.; LEHENZON, N.P.; SHPANIR, Ye.I.

Use of gamma globulin for the prevention of infectious hepatitis
in pediatric institutions. Trudy Kish.gos.med.inst. 11:101-104
'60. (MIRA 16:2)

1. Otdel epidemiologii Moldavskogo nauchno-issledovatel'skogo
instituta epidemiologii, mikrobiologii i gigiyeny, Kishinevskaya,
Bel'tskaya, Orgeyevskaya i Respublikanskaya sanitarnaya epidemi-
logicheskaya stantsiya.

(HEPATITIS, INFECTIOUS—PREVENTIVE INOCULATION)
(GAMMA GLOBULIN)

SMORODINTSEV, A.A.; DROBYSHEVSKAYA, A.I.; BULYCHEV, N.P.; VASIL'YEV, K.G.;
VOTYAKOV, V.I.; GROYSMAN, G.M.; ZHILOVA, G.P.; IL'YENKO, V.I.;
KANTOROVICH, R.A.; KURNOSOVA, L.M.; CHAIKINA, O.M.

Material on the immunological and epidemiological effectiveness
of live poliomyelitis vaccine. Vest. AMN SSSR 15 no.6:45-58 '60.
(MIRA 14:4)

1. Otdel virusologii Instituta eksperimental'noy meditsiny AMN SSSR.
(POLIOMYELITIS)

BLOKH, G.A.; GORYAIN, N.P.; CHERVINSKIY, Yu.Ye.; ZHUBKO, V.A.; BULKIK, I.N.

Rubber expansion joints. Gaz. prom. & no.8:31-34 '63.

(MIA: 17:11)

L 45237-65 EWT(m)/EPF(c)/EWP(j)/T PC-4/Pr-4 RM
ACCESSION NR: AP5010847

UR/0138/65/000/004/0008/0012

AUTHOR: Rashev, I. M.; Guseva, V. I.; Groysman, M. Ya.; Kantor, F. S.

TITLE: Continuous preparation of carbon black-extended butadiene-styrene rubbers

SOURCE: Kauchuk i rezina, no. 4, 1965, 8-12

TOPIC TAGS: synthetic rubber, styrene rubber, rubber extender, rubber manufacture, carbon black, butadiene rubber, rubber wear, rubber aging, filler dispersion

ABSTRACT: Experimental data are presented pertaining to the development of a technological process for the preparation of carbon black-extended butadiene-styrene rubbers by means of a continuous pilot assembly including a disperser for the preparation of carbon black dispersions and apparatus for the coagulation of the systems carbon black - latex - oil. The assembly was constructed at the Giprokaučuk. The starting materials employed were butadiene-styrene latex SKS-30ARK, carbon black types KhAF, AySAF, and SAF, and oil PH-6. Optimum loading of surface-active agents was studied by using leikanol and the potassium soap of disproportionated rosin. A satisfactory distribution of carbon black was achieved in the vulcanizates. Thus, the introduction of finely dispersed blacks into the

Card 1/2

L 45237-65
ACCESSION NR: AP5010847

4
X

latex insures a better distribution than in the case of dry mixing. The rubber mixtures were vulcanized in a press at 100 atm and 143C for 10, 20, 50, 70, 80, 100, and 120 min. All the vulcanizates obtained from carbon black-extended rubbers had high coefficients of thermal aging and a high wear resistance. The process is recommended for use in industry. "K. V. Pakin and Z. I. Gordeyava participated in the work." Orig. art. has: 4 figures and 3 tables.

ASSOCIATION: Giprokauchuk; Nauchno-issledovatel'skiy institut shinooy promyshlennosti (Scientific Research Institute of the Tire Industry)

SUBMITTED: 00

ENCL: 00

SUB CODE: MT, IE

NO REF SOV: 002

OTHER: 004

Card 2/2

GROYEMAN, S.D.

Plastic tonus of the fundal and pyloric portions of the stomach.
Biul. eksp. biol. i med. 56 no.11:32-35 0 [i.e. N] '63.
(MIRA 17:11)

1. Iz otdela fiziologi pishchevareniya i krevobrazheniya (zav...
doktor biolog. nauk P.G. Bogash) Instituta fiziologi pri Kiyevskom
ordena Lenina gosudarstvennom universitete. Predstavlena deystvitel'nym
chlenom AMN SSSR V.V. Parinym.

GROYSMAN, Ya.I. (g.Petropavlovsk)

What are the results of joint operations in transportation? Zhel.
dor.transp. 42 no.9:92-94 S '60. (MIRA 13:9)

1. Nachal'nik transportnogo otdela Severo-Kazakhstanskogo
sovnarkhoza.
(Transportation) (Loading and unloading)

GROYSMAN, S.D.

Effect from the esophagus on the motor function of an empty stomach
in dogs. Nauk zap. Kyiv. un. 16 no.17:59-64 '57.
(MIRA 13:2)

(ESOPHAGUS) (STOMACH)

GROYSMAN, S.D. [Hroisman, S.D.]

Effect of soda solutions on the periodical activity of fundal and
pyloric sections of the stomach. Report No.1. Nauk zap. Kyiv. un.
16 no.18:77-82 '57. (MIRA 13:2)
(STOMACH) (SODIUM CARBONATE--PHYSIOLOGICAL EFFECT)

BOGACH, P.D.; GROYSMAN, S.D.

Gastric motor reactions to food of varying chemical composition and consistency. Zhur. ob. biol. 20 no.2:56-62 Mr-Ap '59. (MIRA 12:5)

1. Iz otdela fiziologii pishchevareniya i krovoobrashcheniya (zav. - dots. P.G.Bogach) Instituta fiziologii pri Kiyevskom gosudarstvennom universitete imeni T.G.Shevchenko.

(FOOD, effects,

on stomach motor funct. in dogs, relation to chem. composition & consistency (Rus))

(STOMACH, physiol.

motor funct., eff. of chem. composition & consistency of food in dogs (Rus))

GROYSMAN, S. D., Cand Biol Sci -- (diss) "Digestive action of the stomach for food of various consistency and chemical composition." Kiev, 1960. 16 pp; (Ministry of Higher and Secondary Specialist Education Ukrainian SSR, Kiev Order of Lenin State Univ im T. G. Shevchenko); 150 copies; price not given; list of author's works on pp 15-16 (11 entries); (KL, 17-60, 146)

GROYSMAN, S.D.

Reflex interrelations between the fundal and pyloric sections of the stomach. Fiziol. zhur. 47 no.8:990-996 Ag '61. (MIRA 14:8)

1. From the Department of Digestive and Circulatory Physiology,
University Institute of Animal Physiology, Kiev.
(GASTROINTESTINAL MOTILITY)

KOVTUNENKO, K.P., inzh.; GROYSER, M.V.; GRODSKIY, Ye.Ya.; SMIRNOV, V.M.;
MAKAROV, V.I.

Use of reinforced concrete structures of plant manufacture. Gidr.
i mel. 16 no.6:47-52 Je '64. (MIRA 17:9)

1. Goszemvodkhoz RSFSR (for Kovtunenko). 2. Volgogradvodstroy
(for Groyser, Makarov). 3. Nauchnoissledovatel'skiy institut sel'-
skogo stroitel'stva (for Grodskiy). 4. Yuzhnnyy gosudarstvennyy
institut po proyektirovaniyu vodokhozyaystvennogo i meliorativnogo
stroitel'stva (for Smirnov).

GROYSMAN, F.Ye.

Track repair in winter. Put' i put. khoz. 9 no.12:13 '65.
(MIRA 19:1)
1. Glavnnyy inzh. putevoy mashinnoy stantsii No.133, stantsiya
Kupyansk-Uzlovoy, Yuzhnay dorogi.

BOGACH, P.G.; GORYAIN, S.B.

Motor activity of the stomach following liquid diet. Fiziol. zhur.
50 no.2:193-198 F '64. (MIRA 18:2)

1. Otdel fiziologii pishchevareniya i krovoobrashcheniya Instituta
fiziologii pri Gosudarstvennom universitete, Kiyev.

SOV/124-58-8-9205

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 8, p 125 (USSR)

AUTHOR: Groysman, S.Kh.

TITLE: Concerning the Use of the Method of Professor A.I. Segal' to Calculate Roof Coverings Having Several Crossties (K voprosu o raschete perekrytiy s neskol'kimi perekrestnymi svyazyami po metodu prof. A.I. Segalya)

PERIODICAL: Tr. Mosk. tekhn. in-ta rybn. prom-sti i kh-va, 1957, Nr 8, pp 140-141

ABSTRACT: It is demonstrated that a roof covering reinforced with several crossties can be calculated more simply than by the Segal' method, which involves solving a nonlinear system of equations. The simpler method proposed by the author involves solving one quartic equation and systems of linear equations.

N.K. Snitko

Card 1/1

L 43680-66 EWT(m) IJP(c)
ACC NR: AT6017509 (N)

SOURCE CODE: UR/2759/65/000/007/0066/0076

AUTHOR: Groyunov, A. A.; Pyatnov, Ye. G.; Finogenov, A. I.

ORG: none

19
21

TITLE: Experimental characteristics of a linear electron accelerator with continuous-
ly adjustable energy from 1.4 to 2 Mev

SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Uskoriteli, no. 7, 1965, 66-76

TOPIC TAGS: linear accelerator, waveguide, radiation chemistry, magnetron / U 16 lin-
ear accelerator

ABSTRACT: Measurements of the energy dependence on frequency, power and load current
were made. All measurements were made on the U-16 linear electron accelerator operat-
ing in the traveling waveguide mode. The U-16 accelerator is used primarily as a
source of radiation for research in nuclear radiation chemistry. It was necessary
therefore, to achieve an operation mode with continuously adjustable energy from 1.4-
-2 Mev. The U-16 accelerator operates with an average current of 200 μ A. It is driv-
en with a high frequency pulsed magnetron with variable frequency. The tests showed
that a simple and effective way to achieve a wide range of energy regulation consists
in varying the frequency of the pulsed magnetron. In this manner, the energy and cur-
rent in the accelerator can be varied independently. In order to obtain a stable ope-

Card 1/2

L 43680-66

ACC NR: AT6017509

ration of the magnetron in the frequency range of 6 to 10 Mc, it was necessary to ascertain the properties of the entire high frequency portion of the accelerator. The band properties of the high frequency part of the accelerator are shown in a graph. Additional graphs show (1) the energy variation and the energy band as a function of frequency for different input power at 200 μ A; (2) the relation of output energy of the electron to input power; (3) electron energy at the output as a function of the load current of the accelerator (beam current). Orig. art. has: 10 figures.

SUB CODE: 2007/ SUBM DATE: none/ ORIG REF: 003

Card 2/2 mjs

GROZ', D.G.

Hydrometeorological research in regions of reclaimed virgin and idle
lands. Meteor. i gidrol. no.6:68-69 Je '56. (MLRA 9:9)
(Meteorology, Agricultural)

KISS, Istvan; GROZ, Peter

Preparation of radioactive isotopes in the first Hungarian experimental atomic reactor. Energia es atom 16 no.9:407-414 S'63

1. Kozponti Fizikai Kutato Intezet.

0
GROZ, Peter
SURNAME, Given Name

Country: Hungary

Academic Degrees:

Affiliation:

Source: A Magyar Tudomanyos Akademia Kemial Tudomanyok Osztalyanak Kezlemenyei,
Vol. 14, No. 3, 1960, pp 313-354.

Data: Coinventor with:

MARTON, Jozsefne (Mrs.) and

LORING, Andor of "Process for the Preparation of Azoic Dye Utilizing O-amino or
O-nitroethylbenzol," Patent #142374, (1952).

Coinventor with:

MARTON, Jozsef, Dr. and

MATOLCSY, Kalman of "Process for the Preparation of Naphthol Derivatives,"
Patent #142635, (1953).

(5)

SURNAME, Given Name

GROZ

Country: Rumania

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617110006-9

Academic Degrees: -not given-

Affiliation: Surgical Clinic I, Medical-Pharmaceutical Institute (Clinica I.
Chirurgicala, Institutul Medico-Farmaceutic), Cluj.

Source: Timisoara, Timisoara Medicala, Vol VI, No 1, Jan-Jun 1961, pp
27-32.

Data: "Anatomical Considerations of an Aspect of Arterial Obliteration."

Authors:

NANA, A. ✓

IONESCU, M.

GROZA, A.

670 981643

6

VASOJEVIC, S., doc. dr.; SUVAKOVIC, V., dr.; CIRIC, D., dr.; GROZA, A., dr.

Infectious hepatitis and hepatic coma (report of 3 cases). Med. glasn. 15 no.7/8:330-334 Jl-Ag '61.

1. Klinika za infektivne bolesti Medicinskog fakulteta u Beogradu (Zamenik upravnika: doc. dr M. Nikolic).

(HEPATITIS INFECTIOUS compl)
(HEPATIC COMA etiol)

PERISIC, Z.; BUGARINOVIC, D.; SUVAKOVIC, V.; GROZA, A.; MILOSEVIC, M.

Water-borne epidemic of typhoid in Pristina in 1962. Vojnosanit.
pregl. 21 no.6:373-379 Je '64

1. Klinika za infektivne bolesti, Beograd; Opsta bolnica,
Pristina i Higijenski institut SR Srbije, Beograd.

MILOSEVIC, Milorad, prof., dr.; VASOJEVIC, Stevan; MANOK, Milorad;
GROZA, Aleksandar

A case of a syndrome of exudative erythema multiforme (Stevens-Johnson syndrome). Srpski arh. celok. lek. 89 no.4:471-475 Ap '61.

1. Infektivna klinika Medicinskog fakulteta Univerziteta u Beogradu.
Upravnik: prof. dr. Milorad Milosevic. Dermatoveneroloska klinika
Medicinskog fakulteta Univerziteta u Beogradu. Upravnik: prof. dr
Sima Ilic.

(ERYTHEMA MULTIFORME case reports)

TODOROVIC, Kosta; KOSTIC, Andelija; SUVAKOVIC, Vojislav;
PETROVIC, Milena; GROZA, Aleksandar

Salmonella infections in clinical practice. Experiences in 1959.
Srpski arh. celok. lek. 90 no.4:385-391 Ap '62.

1. Klinika za infektivne bolesti Medicinskog fakulteta Uni-
verziteta u Beogradu Upravnik: prof. dr. Milorad Milosevich.
(SALMONELLA INFECTIONS)

JERIC, Sonja; GROZA, Aleksandar; MILENKOVIC, Petar

On a case of hypophyseal tumor and pertussis in a 10-year-old girl. Srpski arh. celok. lek. 90 no.6:659-661 Je '62.

1. Klinika za infektivne bolesti Medicinskog fakulteta Univerziteta u Beogradu V.d. upravnika: doc. dr. Mihailo Nikolic
Neurohirurska klinika Medicinskog fakulteta Univerziteta u Beogradu Upravnik: prof. dr. Slobodan Kostic.
(PITUITARY NEOPLASMS) (WHOOPING COUGH)

GHIULAI, Constantin, ing.; DUMITRU, Gheorghio, ing.; GROZA, Alexandru, ing.;
GHIULAI, Mihai, ing.; NEGRUS, Eugen, ing.

Criteria for determining the periodicity of car maintenance
operations. Rev transport 11 no.9:381-386 S '64.

GROZA, B.A.

Vagina tendinis of the rectus abdominis muscle as a proprioception zone. Zdravookhranenie 5 no.4:41-43 Jl-Ag '62. (MIRA 15:9)

1. Iz kafedry normal'noy anatomii (zav. - prof. V.V.Kupriyanov)
2-go Moskovskogo meditsinskogo instituta imeni N.I.Pirogova.
(MUSCLES---INNervation)

KUPRIYANOV, V.V. (Moskva, G-146, Komsomol'skiy prospekt 36, kv. 40);
GROZA, B.A.

Gheorghe Marinescu; on the 100th anniversary of his birth. Arkh.
anat., gist. i embr. 47 no. 11:99-101 N '64 (MIRA 19:1)

1. Adres avtora: Kishinev, Kiyevskaya ulitsa 78, Universitet,
kafedra anatomii i fiziologii cheloveka (for Groza).

~~██████████~~
GROZA, Emilia

Always to be present in the middle of the masses of the people.
Munca sindic 6 nr.5:13-17 My '62.

GROZA, Emil

In close collaboration with the organization of the Union
of Working Youth. Munca sindic 6 no.6:13-16 Je '62.

GROZA, Emilia

More attention to the good experience in the propaganda organization
by conferences. Munca sindic 6 no.10:28-31 0 '62.

GROZA, Emilia; LISMAN, M*Mai*

Efficient forms and means in the work of spreading of scientific
knowledges. Munca sindic 6 no.1149-51 N '62.

GROZA, Emilia

Attentive concern on the life problems of the members of trade unions.
Munca sindic [7] no.1:51-53 Ja '63.

GROZA, Em.

Rumanian trade-union movies, an important means of education and culture. Munca sindic 7 no.4:47-50 Ap '63.

RUMANIA

GROZA, I., Veterinary Physician; BOLDIJAR, Artemiza, Chemist; and GEORGETA, Vlad, Engineer; Central Laboratory of Sanitary and Veterinary Control of Foods and Feeds (Laboratorul central de control sanitari-veterinar al alimentelor si furajelor) Bucharest

"Chlorella Vulgaris, an Important Source of Proteins and Vitamins for Animal Feeding"

Bucharest, Revista De Zootehnie si Medicina Veterinara, Vol 16, No. 7
June 1966; pp. 24-26

Abstract: General discussion on the possibility of utilizing algae as animal food, based partly on world literature, but primarily on the visit by one of the authors to the Czech Institute of Algology in Trebon; an analysis of 9 components of the powdered green smelly Chlorella flour is tabulated and compared with 7 other foods. Table 1 French and 5 Rumanian references.

1/1

- 74 -

LITSYN, P.P., dotsent. (Khar'kov); GROZA, K.Ye., mladshiy nauchnyy sotrudnik
(Khar'kov)

No. 5 compound for treating malaria. Vrach. delo no.1:93
Ja '57 (MLRA 10:4)

1. Ukrainskiy nauchno-issledovatel'skiy institut malyarii i
meditsinskoy parazitologii.
(MALARIA) (PHARMACOLOGY)

GROZA, L.

Selection of characteristics and the function of arc suppression coils. p. 75. ENERGETICA. (Asociatia Stiintifica a Inginerilor si Tehnicienilor din Romania si Ministerul Energiei Electrice si Industriei Electrotehnice) Bucuresti. Vol. 4, no. 2, 1956.

So. East European Accessions List Vol. 5, No. 9 September, 1956

GROZA, L., ing.; BOGAN, M., ing.; UNGUREANU, B., ing.

Utilization of digital electronic computers to solve the electric network problems. Electrotehnica ? no.10:358-366 O '61.

1. Sef proiectant la Institutul de studii si proiectari energetice (for Groza). 2. Proiectant la Institutul de studii si proiectari energetice (for Bogan, Ungureanu).

CONSTANTINESCU, Emil, conf. ing. (Bucuresti); GROZA, Liviu, ing. (Bucuresti)

Proceedings of the 19th Session of the International Conference of
Great Electric Networks. Electrotehnica 11 no.3:95-98 Mr '63.

1. Inginer sef la Institutul de studii si proiectari energetice
(for Constantinescu). 2. Proiectant sef la Institutul de studii
si proiectari energetice (for Groza).

CONSTANTINESCU, Emile, ing.; GROZA, Liviu, ing.

Works of the 19th Session of the International Conference on
Large Electric Systems. Energetica Rum 11 no.3:95-101 Mr '63.

BERENGHI, St., ing.; GROZA, L., ing.; CONSTANTINESCU, E., ing.

Problems discussed by the Working Groups during the Sessions of
the International Conference on Large Electric Systems.
Energetica Rum 11 no.3:102-112 Mr '63.

DIMO, P., ing.; GROZA, L., ing.; MORAITE, G., ing.

Optimization of test conditions for the determination of the parameters of a network. Energetica Rum 11 no.3:117-129 Mr '63.

CONSTANTINESCU, E., ing.; GROZA, L., ing.

Problems discussed by the Study Committees during the Sessions of
the International Conference on Large Electric Systems.
Energetica Rum 11 no.3:113-116 Mr '63.

CONSTANTINESCU, E., ing.; MILITARU, P., ing.; GROZA, L., ing.; GROF, F., ing.
(R.S., Cehoslovaca); NOVAK, I., ing. (R.S., Cehoslovaca)

Interconnection at 400 kv. between the electric power systems of
Rumania and Czechoslovakia. Energetica Rum 11 no.3:130-137 Mr '63.

GROZA, Liviu, ing.

Practical formulas for electric network calculations with
special reference to voltage variations. Energetica Rum 11
no.8:416-421 Ag '63.

GROZA, L., ing.; MILITARU, P., conf. ing.

Works of the 18th Session of the International Conference of
Large Electric Systems. Energetica Rum 9 no.8:297-311 Ag
'61.

GROZA, Liviu, ing.

Selection of some analytic methods for determining network parameters for frequency-power control. Energetica Rum 11 no.7:308-317 J1 '63.

GROZA, L., ing.

Recent progress in the use of electronic computers on problems
of system planning. Energetica Rum 12 no.10: 502-506 0 164.

AUTHOR: Groza, L.A.

SOV/20-121-6-2/45

TITLE: Asymptotic Expansions of Solutions of Second Order Ordinary Differential Equations in Banach Spaces (Asimptoticheskoye razlozheniye resheniy obyknovennykh differentsial'nykh uravneniy vtorogo poryadka v banakhovykh prostranstvakh)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 121, Nr 6, pp 963-966 (USSR)

ABSTRACT: Let Y be a Banach space with a multiplication of the elements by real numbers. Let the series

$$(1) \quad \sum_{k=0}^{\infty} c_k \varepsilon^k, \quad c_n \in Y$$

have the property that for every n $\lim_{\varepsilon \rightarrow 0} \frac{\|f(\varepsilon) - \sum_{k=0}^n c_k \varepsilon^k\|}{\varepsilon^n} = 0$.

Then (1) is denoted as an asymptotic development of $f(\varepsilon)$:

$f(\varepsilon) \sim \sum_{k=0}^{\infty} c_k \varepsilon^k$. Given the equation $\varepsilon y'' + y' + Ay = 0$, $y(x, \varepsilon) \in Y$,

A linear bounded operator, $A \in \{Y \rightarrow Y\}$. Solutions are considered on $[x_0, x_1]$. Let $\varepsilon y' = y^{[1]}$, $\varepsilon^2 y'' = y^{[2]}$, then $A(y) = y^{[2]} + y^{[1]} + \varepsilon A y = 0$.

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Asymptotic Expansions of Solutions of Second Order Ordinary SOV/20-121-6-2/45
 Differential Equations in Banach Spaces

Let the set of the polynomials $a_0 + a_1 A + \dots + a_s A^s$, a_i - real, be $\{A^s\}$. Let $\{\underline{A}^s\}$ denote the corresponding commutative Banach algebra. In $\{\underline{A}^s\}$ the author considers

$$(2) \quad A(\bar{y}) = \bar{y}^{[2]} + \bar{y}^{[1]} + \varepsilon A\bar{y} = \bar{0}.$$

Theorem: There exist two fundamental solutions of (2) with the form:

$$\bar{y}_1(x, \varepsilon) = \bar{u}_1(x, \varepsilon) + e^{-\frac{x-x_0}{\varepsilon}} \bar{E}_{10}(x, \varepsilon) \varepsilon^m, \quad \bar{y}_2(x, \varepsilon) = \bar{u}_2(x, \varepsilon) + \bar{E}_{20}(x, \varepsilon) \varepsilon^m,$$

$$\frac{d\bar{y}_1}{dx} = \frac{du_1}{dx} + e^{-\frac{x-x_0}{\varepsilon}} \bar{E}_{11}(x, \varepsilon) \varepsilon^{m-1}, \quad \frac{d\bar{y}_2}{dx} = \frac{du_2}{dx} + \bar{E}_{21}(x, \varepsilon) \varepsilon^{m-1},$$

where the $\bar{E} \in \{\underline{A}_s^s\}$ with all derivatives in x are continuous on $[x_0, x_1]$, in ε are analytical and uniformly bounded on $0 < \varepsilon \leq \varepsilon^*$ ($0 < \varepsilon^* \leq \varepsilon_1$), while \bar{u}_1 and \bar{u}_2 are the solutions of

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